



FORM PTO-1449  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

16887.076

APPLICATION NO.

09/009,846

APPLICANTS

Robert ZAMBIAS *et al.*

FILING DATE

Herewith

GROUP

To Be Assigned

1639

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
PP	AA1	3,410,880	11/1966	Brockenhurst			
	AB1	3,450,673	06/1969	McKillip			
	AC1	3,485,806	12/1969	Bloomquist <i>et al.</i>			
	AD1	3,488,327	01/1970	Kollinsky <i>et al.</i>			
	AE1	3,488,389	01/1970	McKillip			
	AF1	3,499,032	03/1970	Clemens <i>et al.</i>			
	AG1	3,511,894	05/1970	Markert			
	AH1	3,527,802	09/1970	Slagel			
	AI1	3,555,095	01/1971	Slagel			
	AJ1	3,565,868	02/1971	Sedor <i>et al.</i>			
	AK1	3,567,725	03/1971	Grabowski <i>et al.</i>			
	AL1	3,583,950	06/1971	Kollinsky <i>et al.</i>			
	AM1	3,598,790	08/1971	Kollinsky <i>et al.</i>			
	AN1	3,641,145	02/1972	Culbertson			
	AO1	3,664,990	05/1972	Slagel			
	AP1	3,671,473	06/1972	Sedor <i>et al.</i>			
	AQ1	3,676,453	07/1972	Pines <i>et al.</i>			
	AR1	3,704,128	11/1972	Koda <i>et al.</i>			
	AS1	3,706,797	12/1972	McKillip <i>et al.</i>			
	AT1	3,706,800	12/1972	Hartlage <i>et al.</i>			
	AU1	3,715,343	02/1973	Slagel <i>et al.</i>			
	AV1	3,728,387	04/1973	Freis <i>et al.</i>			
	AW1	3,756,994	09/1973	Culbertson			
	AX1	3,781,319	12/1973	Wawzonek <i>et al.</i>			
	AY1	3,794,495	12/1974	Ishihara <i>et al.</i>			
	AZ1	3,803,220	04/1974	Gasman			
	BA1	3,811,887	05/1974	Ishihara <i>et al.</i>			
	BB1	3,818,065	06/1974	Schoellkopf <i>et al.</i>			
	BC1	3,828,007	08/1974	Throckmorton			

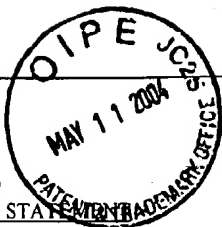
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AA2	3,850,969	11/1974	Grimm <i>et al.</i>		
AB2	3,893,974	07/1975	Niino <i>et al.</i>		
AC2	3,898,087	08/1975	Brutchen <i>et al.</i>		
AD2	3,904,749	09/1975	McKillip		
AE2	3,925,284	12/1975	Carleton <i>et al.</i>		
AF2	3,934,029	01/1976	Kabara		
AG2	3,934,031	01/1976	Kabara		
AH2	3,934,035	01/1976	Kabara		
AI2	3,946,131	03/1976	Biefeld <i>et al.</i>		
AJ2	3,948,866	04/1976	Pennewiss <i>et al.</i>		
AK2	3,963,703	06/1976	Culbertson		
AL2	3,963,776	06/1976	Middleton		
AM2	3,968,065	07/1976	Morris <i>et al.</i>		
AN2	3,969,298	07/1976	Gasman		
AO2	3,983,166	09/1976	Samour		
AP2	3,985,807	10/1976	Grimm <i>et al.</i>		
AQ2	4,005,055	01/1977	Miron <i>et al.</i>		
AR2	4,016,340	04/1977	Kolesinski <i>et al.</i>		
AS2	4,022,623	05/1977	Fitzgerald <i>et al.</i>		
AT2	4,046,658	09/1977	Brown		
AU2	4,067,830	01/1978	Kresta		
AV2	4,070,348	01/1978	Kriemer <i>et al.</i>		
AW2	4,078,901	03/1978	Sung <i>et al.</i>		
AX2	4,080,206	03/1978	Kolesinski <i>et al.</i>		
AY2	4,097,444	06/1978	Teige <i>et al.</i>		
AZ2	4,102,916	07/1978	Falk		
BA2	4,122,159	10/1978	Madrang <i>et al.</i>		
BB2	4,140,680	02/1979	Sullivan		
BC2	4,162,355	07/1979	Tsibris		
BD2	4,189,481	02/1980	Kabara		

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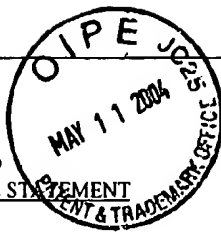
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APPLICANTS				Robert ZAMBIAS <i>et al.</i>			
FILING DATE				GROUP			
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U.S. PATENT DOCUMENTS							
PP	AA3	4,212,905	07/1980	Talbris			
	AB3	4,213,860	07/1980	Tsibris			
	AC3	4,217,364	08/1980	Kabara			
	AD3	4,260,705	07/1981	Tsibris			
	AE3	4,280,008	07/1981	Schoellkopf <i>et al.</i>			
	AF3	4,304,705	12/1981	Hielmann <i>et al.</i>			
	AG3	4,378,411	03/1983	Heilmann <i>et al.</i>			
	AH3	4,424,272	01/1984	Taylor			
	AI3	4,451,619	05/1984	Heilmann <i>et al.</i>			
	AJ3	4,485,236	11/1984	Rasmussen <i>et al.</i>			
	AK3	4,548,981	10/1985	Kolesinski <i>et al.</i>			
	AL3	4,563,467	01/1986	Soler			
	AM3	4,617,253	10/1986	Taylor <i>et al.</i>			
	AN3	4,624,995	11/1986	Katritzky <i>et al.</i>			
	AO3	4,645,711	02/1987	Winslow			
	AP3	4,667,012	05/1987	Rasmussen <i>et al.</i>			
	AQ3	4,670,528	06/1987	Taylor <i>et al.</i>			
	AR3	4,695,608	09/1987	Engler <i>et al.</i>			
	AS3	4,705,824	11/1987	Lin			
	AT3	4,737,560	12/1988	Heilmann <i>et al.</i>			
	AU3	4,740,568	04/1988	Katritzky <i>et al.</i>			
	AV3	4,777,217	10/1988	Rasmussen <i>et al.</i>			
	AW3	4,777,276	10/1988	Rasmussen <i>et al.</i>			
	AX3	4,785,070	11/1988	Rasmussen <i>et al.</i>			
	AY3	4,816,554	03/1989	Katritzky <i>et al.</i>			
	AZ3	4,841,021	06/1989	Katritzky <i>et al.</i>			
	BA3	4,852,969	08/1989	Babirad <i>et al.</i>			
	BB3	4,871,824	10/1989	Heilmann <i>et al.</i>			
	BC3	4,874,822	10/1989	Rasmussen <i>et al.</i>			
	BD3	4,898,923	02/1990	Katritzky <i>et al.</i>			
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P. Ponnaluri						10/29/04	
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PP	AA4	4,948,715	08/1990	Hulme-Lowe <i>et al.</i>			
	AB4	4,981,933	01/1991	Fazio <i>et al.</i>			
	AC4	5,013,795	05/1991	Coleman <i>et al.</i>			
	AD4	5,039,813	08/1991	Fazio <i>et al.</i>			
	AE4	5,066,559	11/1991	Elmasry <i>et al.</i>			
	AF4	5,075,352	12/1991	Elmasry			
	AG4	5,081,197	01/1992	Heilmann <i>et al.</i>			
	AH4	5,091,489	02/1992	Heilmann <i>et al.</i>			
	AI4	5,094,766	03/1992	Kepuscinski <i>et al.</i>			
	AJ4	5,138,071	08/1992	Schoellkopf <i>et al.</i>			
	AK4	5,147,957	09/1992	Kumar			
	AL4	5,149,806	09/1992	Moren <i>et al.</i>			
	AM4	5,157,108	10/1992	Krepiski <i>et al.</i>			
	AN4	5,157,145	10/1992	Schoellkopf <i>et al.</i>			
	AO4	5,175,081	12/1992	Krepiski <i>et al.</i>			
	AP4	5,185,102	02/1993	Harelstad <i>et al.</i>			
	AQ4	5,194,623	03/1993	Krepiski <i>et al.</i>			
✓	AR4	5,200,471	04/1993	Coleman <i>et al.</i>			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
PP	AS4	93/20935	10/1993	PER WIPO			x Yes No
	AT4	1 181 218	02/1970	Great Britain			x Yes No
	AU4	1 265 163	03/1972	Great Britain			x Yes No
	AV4	0 185 493	06/1986	EPO			x Yes No
	AW4	63 17933	04/1988	Japan			x Yes No
✓	AX4	0 212 617	04/1987	EPO			Yes No

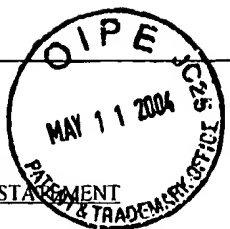
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PP	AA	5	Tetrahedron Letters, 27:6319 (1986) <i>Jean-Pierre Senet</i>
↓	AB	5	Kardiologisisa, "Bioelectrical Mechanism", 31(7):52-55 (1991)
↓	AC	5	Kardiologisisa, 30(8):69-72 (1990)
BP	AD	5	Aelony <i>et al.</i> , <i>J. Hetegel Chem.</i> , "Aminimides IX(1). A general Synthesis of 1-Substituted-2-imidazolidinones(2)", 9:687-690 (1972)
↓	AE	5	Asscher, M., "Acyl Migration in 2-Hydroxylalkyl Aminimides", <i>J. Org. Chem.</i> , 41(4):715-716 (1976)
↓	AF	5	Aubry <i>et al.</i> , "Experimental Conformational Study of Two Peptides Containing α-Aminoisobutyric Acid. Crystal Structure of N-Acetyl-α-aminoisobutyric Acid Methylamide", <i>Biopolymers</i> , 17:1693-1711 (1978)
↓	AG	5	Bapat <i>et al.</i> , "Pyridines as Leaving Groups in Synthetic Transformations: Nucleophilic Displacements of Amino Groups, and Novel Preparations of Nitriles and Isocyanates", <i>Tetrahedron Letters</i> , 31:2691-2694 (1976)
↓	AH	5	Barker, C. C., "The Dehydration and Racemisation of N-Acyl-L-aspartic Acids by Acetic Anhydride", University College, Hull, pp. 453-456 (1952)
↓	AI	5	Barta-Szalai <i>et al.</i> , "Electron Deficient Heteroaromatic Ammonioamidates. XVII. N-(3-Quinazolinio)amidates. VI. The Photochemistry of N-(30Quinazolinio)amidates in the Presence of α-Toluenethiol", <i>Acta Chem. Scand. B</i> 33(2) (1979)
↓	AJ	5	Barta-Szalai <i>et al.</i> , "Electron Deficient Heteroaromatic Ammonioamides. Part 24. <sup>1</sup> N-(Quinazolin-3-io)amidates. Part 11. <sup>2</sup> The Photochemistry of N-(6,7-Methylenedioxyquinazolin-3-io)amidates in Acetone", <i>J. Chem. Soc. Perkin Trans. I</i> (1983)
↓	AK	5	Batori <i>et al.</i> , "Novel Synthesis of Pyrido[2,1-fl]-as-Triazinium System and its Zwitterionic Derivatives...", <i>J. Heterocyclic Chem.</i> 23:375 (1986)
↓	AL	5	Batori <i>et al.</i> , "Regioselectivity in Methylation and Phenylation of the Zwitterionic Pyrido[2,1-f]-as-triazinium-1- and 3-olates and thiolates[1]", <i>J. Heterocyclic Chem.</i> 25:437 (1988)
↓	AM	5	Batori <i>et al.</i> , "Synthesis and Regiospecificity in Methylation of Pyrido[1,2-a]pyrazinium-1- and 3-olates and Pyrido[1,2-b]pyridazinium-2- and 4-olates [1]", <i>J. Heterocyclic Chem.</i> , 27:1673 (1990)

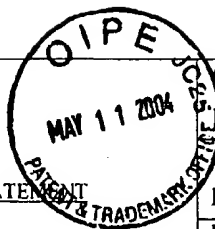
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PP	AA	6	Beck, William H., "The Basicities of Substituted N-Trimethylammoniophenylacetamides and N-Trimethylammoniocinnamamides. The Hammett Correlations and the Thermodynamics of Protonation", <i>J.C.S. Perkin II</i> , 1173 (1978)
	AB	6	Beck <i>et al.</i> , "The Basicities of N-Trimethylammonioacetamide and of Substituted N-Trimethylammoniobenzamides. The Hammett Correlation and the Thermodynamics of Protonation", <i>J.C.S. Perkin II</i> (1976)
	AC	6	Benecke <i>et al.</i> , "The Curtius Rearrangement in Aminimides", <i>Tetrahedron Letters</i> , 4:289-292 (1972)
	AD	6	Benedetti, Ettore, "Solid-State and Solution Conformation of Homo Oligo- $\alpha$ -aminoisobutyric acids) from Tripeptide to Pentapeptide: Evidence for a 310 Helix <sup>1a</sup> ", <i>J. Am. Chem. Soc.</i> , 104:2437-2444 (1982)
	AE	6	Benedetti <i>et al.</i> , "Folded and Extended Structures of Homooligopeptides from $\alpha, \alpha$ -Dialkylated Glycines. A Conformational Energy Computation and X-ray Diffraction Study", <i>J. Am. Chem. Soc.</i> 106:8146-8152 (1984)
	AF	6	Benedetti <i>et al.</i> , "First Crystal Structure Analysis of a Complete Homo-Oligopeptide Series", pp. 619-624
	AG	6	Bettinetti <i>et al.</i> , "Reazione dei diarildiazoalcani-Nota IV. Difenildiazometano e azoici carbonilici", <i>Gazz. Chim. Ital.</i> 95 (1965)
	AH	6	Bobek <i>et al.</i> , "Synthesis of N-Aminopyrazinium Analogs of Cytidine and 2'-Deoxycytidine", <i>Nucleotides &amp; Nucleotides</i> , 10(8):1657-1665 (1991)
	AI	6	Bonora, Gian Maria, "Folded and Extended Structures of Homooligopeptides from $\alpha, \alpha$ -Dialkylated $\alpha$ -Amino Acids. An Infrared Absorption and H Nuclear Magnetic Resonance Study", <i>J. Am. Chem. Soc.</i> , 106:8152-8156 (1984)
	AJ	6	Bonora <i>et al.</i> , "Synthesis of a Homologous Series of Protected Oligopeptides Derived From L-Norvaline", <i>Bull. Soc. Chim. Belg.</i> , 84(4):299-304 (1975)
	AK	6	Bosch <i>et al.</i> , "(-)-Isovaline: Confirmation of its D-(=R)- Configuration by X-Ray Analysis of Its N-Chloroacetyl Derivative", <i>Tetrahedron</i> 38(24):3579-3583 (1982)
	AL	6	Boulton <i>et al.</i> , "Allylic and Benzylic Deamination By Thermal Cleavage of 1-substituted 1,2-Dihydro-2, 4, 6-Triphenylpyridines", <i>Tetrahedron Letters</i> 31:2689-2690 (1976)
✓	AM	6	Boutis <i>et al.</i> , "Observations on the Antineoplastic Activity of Aminimides", <i>Current Chemistry</i> , 11:1213-1216

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PP	AA	7	Bratchley <i>et al.</i> , "Kinetics of Reaction Between Gaseous Oxygen and Cobalt(II) Amines", <i>Chemistry and Industry</i> , (1970)
	AB	7	Bregant and Poje, "New Cyclic Aminimides Containing Pyrazolone Skeleton", <i>Tetrahedron Letters</i> , 21:5059-5060 (1980)
	AC	7	Brown, Melancthon S., "Preparation of Some New Aminimides", <i>Journal of Chemical and Engineering Data</i> , 12(4)
	AD	7	Burgess <i>et al.</i> , "An Obligatory $\alpha$ -Helical Amino Acid Residue", <i>Biopolymers</i> , 12:2599-2605 (1973)
	AE	7	Cameron, A.F., "Structural Investigations of Ylides. Part I. Crystal and Molecular Structures of Trimethylammonio benzamidate and Trimethylammonio nitramidate: Two Stabilised Nitrogen-Nitrogen Ylides", <i>J. Chem. Soc.</i> , 1071-1076 (1972)
	AF	7	Cameron, A.F., "Crystal and Molecular Structures of Two N-Ammonio-amidates", <i>Chemical Communications</i> , 14:725-726 (1971)
	AG	7	Cates, Lindley A., "2,2'-Phthaloyl-, 2,2'-Isophthaloyl-, and 2,2'-Terephthaloylbis[1,1,1-trimethylhydrazinium] Dihydroxide, Bis(Inner Salts): Synthesis, Partition Coefficients, Toxicity and Effect on Ganglionic Transmission", <i>Journal of Pharmaceutical Sciences</i> , 75(4):407-409 (1986)
	AH	7	Clarke <i>et al.</i> , "Mosquito Larvicidal and Pupicidal Activity of Aminimides", <i>Chemical Abstracts</i> , 89:250 (1978)
	AI	7	Cleaver <i>et al.</i> , "Synthesis of 2,2'-Bis-[5(4H)-oxazolones]", 77:1544-1546 (1954)
	AJ	7	Colombo <i>et al.</i> , "Pharmacological Properties of Besulpamide, a New Diuretic, in Rats and Dogs", <i>Meth and Find Exptl Clin Pharmacol</i> , 9(2):101-110 (1987)
	AK	7	"The Crystal and Molecular Structure of the Amino Terminal Tetrapeptide of Alamethicin. A Novel $3_{10}$ Helical Conformation", <i>Biochemical and Biophysical Research Communications</i> , 79(1) (1977)
	AL	7	Corkill <i>et al.</i> , "Light Scattering by Polydisperse Cylindrical Micelles", <i>Newcastle Technical Centre</i> , pp. 1274-1280 (1969)
✓	AM	7	Cuadro <i>et al.</i> , "2-Alkoxy carbonylcycloimmonium Ylides, Efficient 1,4-Dipole Equivalents in the Synthesis of New Conjugated Betaines", <i>Tetrahedron</i> , 49(15):3185-3192 (1993)

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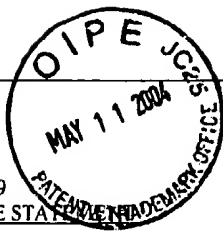
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)						
PD	AA	8	Culbertson, B.M., "Aminimides. VI. Homo- and Copolymerization Studies on Trimethylamine Methacrylimide", <i>Journal of Polymer Science, Part A-1</i> , 6:363-373 (1968)			
	AB	8	Culbertson, B.M., "Aminimides. IV. Homo- and copolymerization Studies on 1,1-Dimethyl-1-(2-hydroxypropyl)amine-Methacrylimide...", <i>Macromolecules</i> , 1:254 (1968)			
	AC	8	Culbertson <i>et al.</i> , "Aminimides. VIII Synthesis and Homo-and Copolymerization Studies of 1,11-Trimethylacrylylhydrazinium Chloride and 1,1,1-Trimethylacrylylhydrazinium chloride and 1,1,1-Trimethylmethacrylylhydrazinium Chloride", <i>Aminimides</i> , 3(6):715-722 (1970)			
	AD	8	Culbertson <i>et al.</i> , "Aminimides V. Preparation and Polymerization Studies of Trimethylamine-4-Vinylbenzimid", <i>Journal of Polymer Science: Part A-1</i> , 6:2197-2207 (1968)			
	AE	8	Culbertson <i>et al.</i> , "Synthesis and Polymerization Studies of aminimide Monomers containing Acetoxyl or Carboxylic Acid Residues", <i>Applied Polymer Symposium</i> , 26:399-410 (1975)			
	AF	8	"Aminimides Cyclic", <i>J. Org. Chem</i> , USSR 2 (1966)			
	AG	8	Delaney <i>et al.</i> , "Sterically-Hindered Amino Acids, Directors of Peptide Conformation", <i>Proceedings of the Seventh American Peptide Symposium, Peptides-Synthesis-Structure-Function</i> , pp. 303-306			
	AH	8	Demestre <i>et al.</i> , "Acute, Subacute and Subchronic Toxicity of Besulpamide", <i>Meth and Find Exptl Clin Pharmacol</i> , 9(2):111-119 (1987)			
	AI	8	Dharanipragada <i>et al.</i> , "Asymmetric Synthesis of Unusual Amino Acids: An Efficient Synthesis of Optically Pure Isomers of $\beta$ -Methylphenylalanine", <i>Tetrahedron</i> , 48(23):4733-4748 (1992)			
	AJ	8	Dias <i>et al.</i> , "Ortho-Metallation Reactions with 1-Benzoyliminopyridinium Betaine", <i>Inorg. Nucl. Chem. Letters</i> , 10:233-235 (1974)			
	AK	8	Dias <i>et al.</i> , "Metal-Ylide Complexes. Part I. Metallation Reactions...", <i>J. Chem. Soc.</i> , 162 (1975)			
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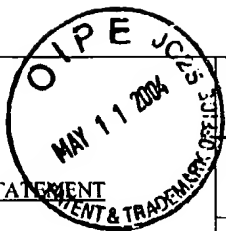
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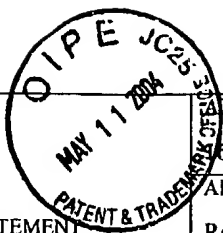
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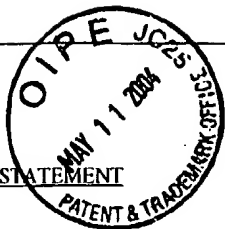
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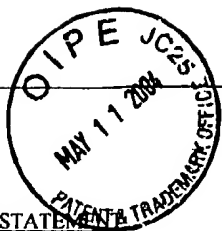
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16887.076

APPLICATION NO.

09/009,846

APPLICANTS

Robert ZAMBIAS *et al.*

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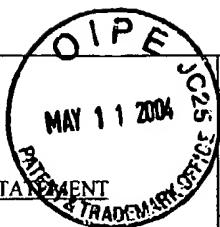
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			FILING DATE Herewith	GROUP To Be Assigned
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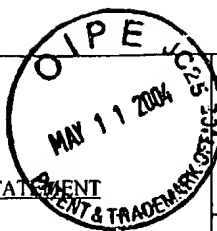
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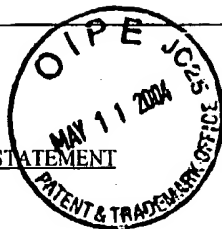
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	AC24	6,060,596	05/2000	Lerner <i>et al.</i>			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
PP	AI24	0 734 530 B1	11/1997	EP			Yes No
	AJ24	0 643 778 B1	05/2000	EP			
	AK24	95/35278	12/1995	<del>RCT</del> WIPO			Yes No

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PP	AI24	24	Armstrong <i>et al.</i> , "Acetylenic beta-linked C-oligosaccharides as distance spacers and probes of biopolymer interactions", Abstracts of Papers American Chemical Society, (1993) Vol. 206, No. 1-2, pp. ORGN 102, 206 <sup>th</sup> ACS (American Chemical Society) National Meeting (August 22-27, 1993)
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P. Ponnathun

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FORM PTO-1449  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

16887.076

APPLICATION NO.

09/009,846

APPLICANTS

Robert ZAMBIAS *et al.*

FILING DATE

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To Be Assigned

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pp	AA25	25	Conference: "Exploiting Molecular Diversity Combinatorial Libraries for Drug Discovery", San Diego, CA, Cambridge Healthtech Institute (January 12-14, 1994), including presentation by Robert Armstrong
	AB25	25	Dooley <i>et al.</i> , Abstract of "New, Potent N-Acetylated L- and D-Amino Acid Opioid Peptides"
	AC25	25	Eichler <i>et al.</i> , Abstract of "Identification of Trypsin-Inhibiting All D-Amino Acid Peptides Through the Screening of a Synthetic D-Amino Acid Peptide Library"
	AD25	25	Garr <i>et al.</i> , Abstract of "Current Technology Applied to Established Chemical Knowledge: A Novel Approach to Small Molecule Chemical Libraries" (December 13, 1993)
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PP	AA	5,340,474	08/1994	Kauvar			

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	AD	1,478,953	03/1967	France	no english language copies provided		x Yes No
	AE	1,558,886	01/1969	France			x Yes No
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PP	AG		05/24/04	Supplementary European Search Report issued by the European Patent Office			

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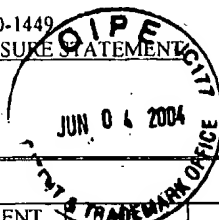
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	93/08278	04/1993	PCT			x Yes No
	94/05394	03/1994	PCT			x Yes No
	94/11388	05/1994	PCT			x Yes No
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	95/04277	02/1995	PCT			x Yes No
	95/12608	05/1995	PCT			x Yes No
	95/13538	05/1995	PCT			x Yes No
	95/16712	06/1995	PCT			x Yes No
PP	95/16918	06/1995	PCT <i>WIPO</i>			x Yes No
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